

**To:** Restivo, Angela[Restivo.Angela@epa.gov]; Garcia, David[Garcia.David@epa.gov]; Brown, Jamesr[brown.jamesr@epa.gov]; Atkins, Blake[Atkins.Blake@epa.gov]; McCasland, Mark[McCasland.Mark@epa.gov]  
**Cc:** Foster, Althea[Foster.Althea@epa.gov]  
**From:** Kirkland, Robert  
**Sent:** Fri 8/7/2015 12:51:28 PM  
**Subject:** RE: Update Gold King Mines-WQ action items

Angela,

So the issue with current stream flows would be that the discharge rate are changing by 100 to 200 cfs of a period of several hours (6 or more). It would probably be prudent to have someone model this with realtime data.

The second thing would be that we need to keep correcting our times with the actual time and location of the leading edge of the plume. I don't think what I sent yesterday will be as accurate until we adjust of a known time and location and the current velocity (movement rate) of the plume.

Thanks,

Robert Kirkland

Physical Scientist (Environmental)

Surface Water Center Coordinator

USEPA Region 6, 6WQ-NI

kirkland.robert@epa.gov

214-665-6798

"Here be dragons" Unknown author. A phrase used to fill the whitespace on early maps.

**From:** Restivo, Angela  
**Sent:** Thursday, August 06, 2015 7:14 PM  
**To:** Garcia, David; Brown, Jamesr; Atkins, Blake; McCasland, Mark; Kirkland, Robert  
**Cc:** Foster, Althea  
**Subject:** Update Gold King Mines-WQ action items

Tomorrow morning at 9:30 am there will be an update call with R8. Same call in number as today's 3:30 meeting.

1) The REOC is wanting guidance from our Division on when the water quality of areas of the river impacted would rebound to levels acceptable for public health.

What would be most helpful would be estimated time of recovery as well as the standards for recreational activities.

It sounds like we might want to include representatives from some of our other branches to help answer these questions.

2) They would like to have a map that includes intakes and infiltration galleries into Region 9 and Navajo Nation territory.

3) They are also requesting travel times for all of these new points up to gauge 09371010. This would be based on R9/Navajo intakes. If we have difficulty accessing that information then travel times to each of the gauges would be helpful.

a. Bob they were wondering how current the stream flows that you used for the calculation were. It would be most helpful if we could have the travel time to the first gauge prior to the 9:30 meeting.

Thanks

Angela

**From:** Skibitski, Thomas, NMENV [<mailto:thomas.skibitski@state.nm.us>]

**Sent:** Thursday, August 06, 2015 6:25 PM

**To:** Foster, Althea

**Cc:** Romero, Nora, NMENV; Crossland, Ronnie; Webster, Susan; Restivo, Angela

**Subject:** RE: Gold King Mines

They are collecting the baseline samples on behalf of EPA. Analytes are as we discussed: TAL metals and Hg. Tomorrow we can coordinate their disposition – if you have EPA staff in the area we can assign COC to EPA and your staff can take possession of them, if you want us to send them out we need to coordinate.

TS

**From:** Foster, Althea [<mailto:Foster.Althea@epa.gov>]  
**Sent:** Thursday, August 06, 2015 5:21 PM  
**To:** Skibitski, Thomas, NMENV  
**Cc:** Romero, Nora, NMENV; Crossland, Ronnie; Webster, Susan; Restivo, Angela  
**Subject:** Re: Gold King Mines

Thomas,

Please clarify your postscript, do you plan to perform the analysis for these samples and if so what parameters will be analyzed.

Sent from my iPad

On Aug 6, 2015, at 6:01 PM, Skibitski, Thomas, NMENV <[thomas.skibitski@state.nm.us](mailto:thomas.skibitski@state.nm.us)> wrote:

Nora,

I expect to get that answer from EPA and if their drinking water folks do not contact you directly then I will forward to you anything I get. I've cc'd the EPA region 6 on this note to make them aware of your concern.

Thanks,

TS

PS, Farmington and Aztec WWTP lab techs will collect samples from the river this evening and refrigerate them over night.

TS

**From:** Romero, Nora, NMENV  
**Sent:** Thursday, August 06, 2015 3:39 PM  
**To:** Skibitski, Thomas, NMENV  
**Subject:** Gold King Mines

Tom,

Can tell me who will be contacting DWB when the Animas water quality is satisfactory for human consumption. Our public water systems will be looking to us for direction on when they will be able to open their intakes for supply.

Thanks,

Nora J. Romero

Drinking Water Bureau

New Mexico Environment Department

Phone: 505.222.9531

Fax: 505.222.9510